	Application No.	Applicant(s)
Notice of Allowability		JENKINS ET AL.
	10/533,433 Examiner	Art Unit
-		2974
	Jerry T. Rahil	2874
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>Applicant's Statement of Arguments received 29 May 2007</u> .		
2. The allowed claim(s) is/are 1-10,12 and 13.		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 		
 Certified copies of the priority documents have been received. 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	5. Notice of Informal F	Patent Application
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Summary	• •
	Paper No./Mail Da	te
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. Examiner's Amendr	ment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance
MICHELLE CONNELLY-CUSHWA Jefry T Rahli PRIMARY EXAMINER		
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DETAILED ACTION

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1. The following is an examiner's statement of reasons for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 2. Claims 1-10 and 12-13 are allowed.
- 3. Claims 1-10 and 12-13 describe hollow-core optical devices with fundamental mode waveguides, multi-mode waveguides, and a means for linearly translating the sidewalls of a portion of the fundamental mode waveguides without substantial distortion.
- 4. US Patent No. 5,428,698 to Jenkins et al. describes a hollow core optical device including two multimode waveguides (20, 24) coupled to multiple fundamental mode waveguides (18, 22, 28) and a means (36) for varying phase in the fundamental mode waveguides (see Figures 1-2 and 10 and Columns 4-6 and 14). Jenkins et al. does not describe a means for linearly translating both side walls of the fundamental mode waveguide without substantial distortion.
- 5. US Patent No. 7,042,631 to Smith et al. describes means for phase-shifting a hollow waveguide by varying a cross-sectional dimension of the waveguide via compression (see Column 42 Lines 23-29). However, the means of Smith et al. causes substantial distortion.
- 6. There would have been not motivation to alter the teachings of either Jenkins et al. or Smith et al. to result in Applicant's invention as claimed.

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7. U.S. Patents Nos. 5,428,698 and 7,042,631 remain the closest prior art of record in this application. For the reasons stated above, however, Claims 1-10 and 12-13 herein are deemed to patentably distinguish over all prior art of record.

- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T. Rahll whose telephone number is (571) 272-2356. The examiner can normally be reached on M-F (9:00-5:00).
- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jerry T Rahll

MICHELLE CONNELLY-CUSHWA